

EuroTech – RILEM PhD School "Concrete Life Cycle: From Cradle to Grave"

Course Report

Technion, Haifa, Israel, January 2020





On January 12-15 the first joint initiative of the RILEM Educational Activities Committee (EAC) and Eurotech has been successfully materialized. The EuroTech Universities alliance (<http://eurotech-universities.eu/>) is a strategic partnership of leading European universities of science and technology committed to excellence in research and jointly developing solutions to the grand challenges of society. The Eurotech-RILEM Winter PhD School has been organized jointly by three universities – members of the EuroTech alliance: Technion – Israel Institute of Technology, Technical University of Denmark (DTU) and Eindhoven University of Technology (TU/e), in the form of a 3-day intensive educational course for doctoral students.

The course addressed sustainability, testing, design, and construction of concrete structures exposed to different loading and environmental conditions. The course contents covered the fundamental issues related to cement chemistry, physics and mechanics, the durability of concrete structures under extreme exposure environments, and Life Cycle Assessment (LCA) aspects.

A total of 18 participants, both from the Eurotech universities - Technion, DTU, TU/e, and EPFL (Switzerland), and several non-Eurotech universities, such as TU Delft (The Netherlands), National Institute of Applied Sciences of Rennes (France), Ben-Gurion University (Israel), West Pomeranian University of Technology (Poland), and Silesian University of Technology (Poland), attended the PhD School.

The course in Haifa preceded and interacted with the 3rd International RILEM Workshop on Concrete Durability and Service Life Planning ("ConcreteLife'20"), Haifa, 15-16 January 2020 (international organization by Prof. K. Kovler, Technion, Prof. O.M. Jensen, DTU, and Prof. Jiaping Liu, Southeast University, China). This combined event brought together young professionals and international experts dealing with a variety of topics related to sustainability, durability and service life planning of concrete structures. The School participants attended the scientific sessions and discussions during the scientific workshop. The exposure of young doctorate students to the lectures by leading international experts in the field and the open workshop discussion format enriched the participants' knowledge - both those who are considering to later start an academic career and those planning to become experts in the industry.





Following successful evaluation, all the students obtained certificates attesting the workload.

RILEM is proud of taking part in this activity which is among the most important societal contributions we can make and would like to express our gratitude to the course organizers - Prof. Konstantin Kovler (Technion), Prof. Ole Mejlhede Jensen (DTU) and Prof. Jos Brouwers (TU Eindhoven).

